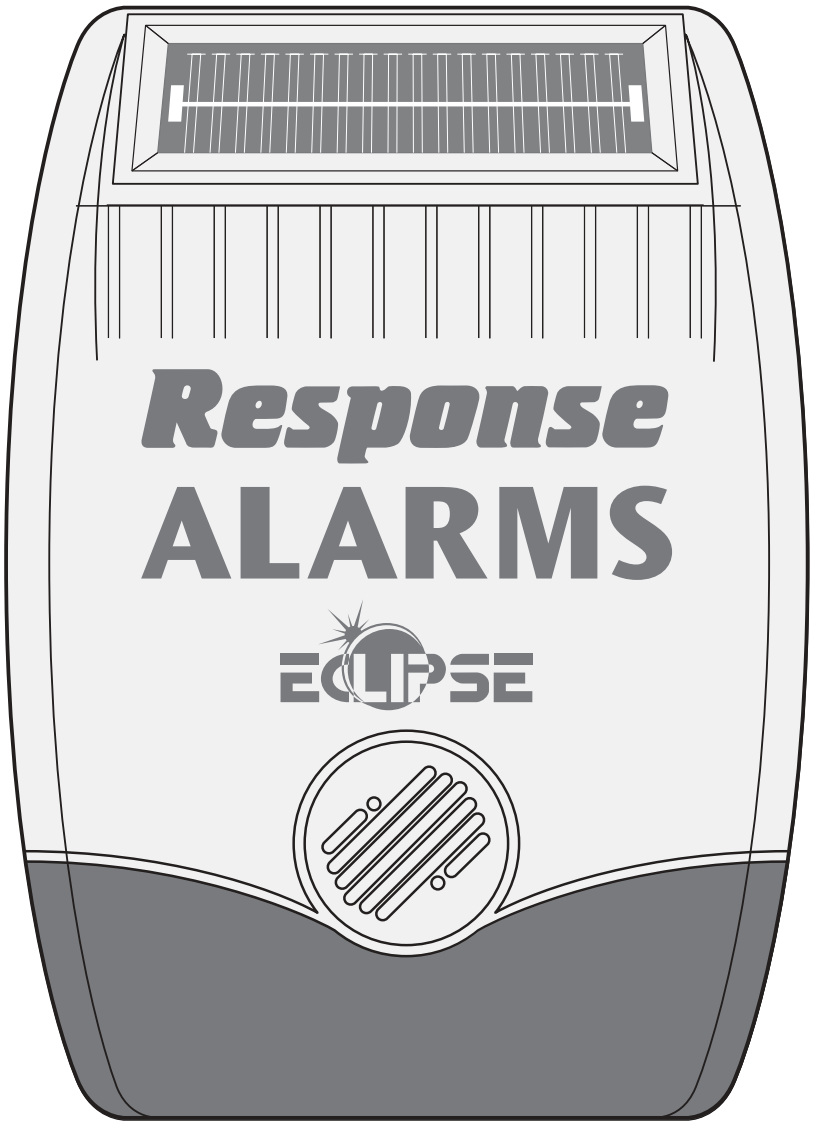
E100 Wirefree
Alarm System



Installation & Operating Manual

Response

FOREWORD

Your decision to purchase an Eclipse Wirefree Solar Alarm System represents a major and sensible step towards total protection of your premises, its contents and its occupants.

The Eclipse Wirefree Solar Alarm System complies with the requirements of BS6799 Class 1 for Wireless Alarms. All components are designed and manufactured to provide a high standard of security protection and long, reliable service. In addition, the radio devices are tested and approved by the Radio Regulatory division of the Department of Trade and Industry (DTI) to ensure that they will not interfere with other radio equipment. No radio licence is required, however, the approved radio frequency is not protected from interference and may be withdrawn from use at any time subject to the DTI giving users an appropriate notice period.

The Eclipse Wirefree Solar Alarm System is purposely designed for installation by non-experienced people using only conventional domestic tools. However, it is essential that the Installer reads and fully understands the advice and procedures contained in this manual before proceeding with the installation. This manual should be retained for future reference.

During installation, it is also important that the procedures are followed in sequence.

IMPORTANT NOTE

All components, with the exception of the External Solar Siren are only suitable for internal use.

SYSTEM SECURITY

This system has been designed to both detect intruders and act as a strong deterrent to would-be intruders. Please remember that given adequate knowledge and time it is possible to overcome any alarm system and we therefore recommend that an Intruder Alarm is used in conjunction with good physical protection such as security window and door locks.

The system is operated from one or more Remote Control Units, which are encoded by the user to his/her own House Code. The House Code can be changed at any time by the user to suit the circumstances.

Care should be taken to ensure that your Remote Control Unit(s) are not lost as the finder could Disarm your alarm before you are able to re-code the system.

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INTRODUCTION

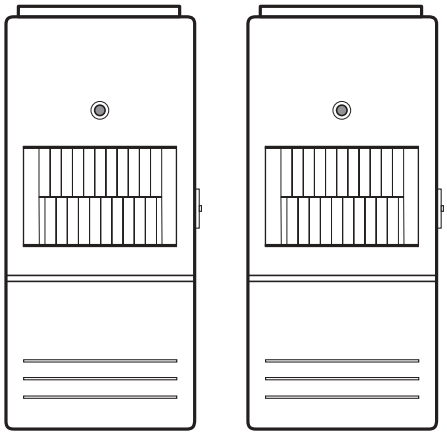
The Eclipse Wirefree Solar Alarm System contains all components necessary to install a complete system.

Wirefree items included are:

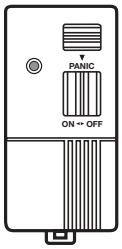
1 x Wirefree External Solar Siren

2 x PIR Movement Detectors

1 x Remote Control



2 x Wirefree Passive Infra Red Movement Detectors (PIR's)



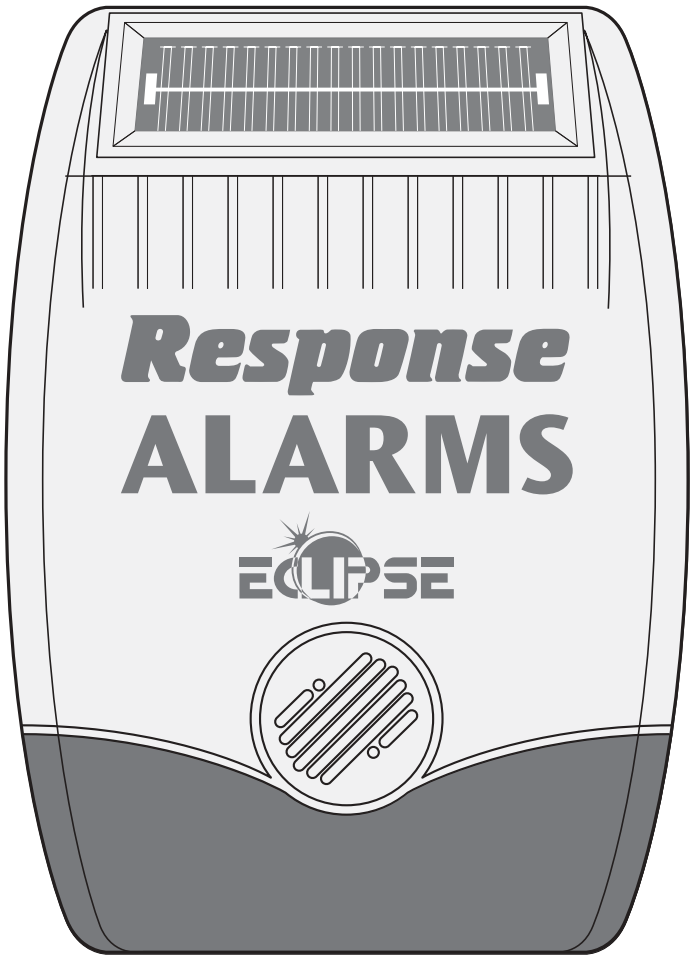
Wirefree Remote Control

Also included:

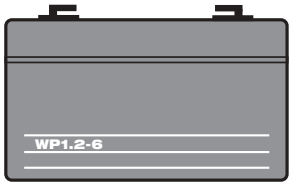
Installation & Operating Manual

All necessary fixings

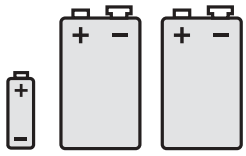
Window stickers



Wirefree External Solar Siren



Rechargeable Battery
(Supplied fitted in the Solar Siren)



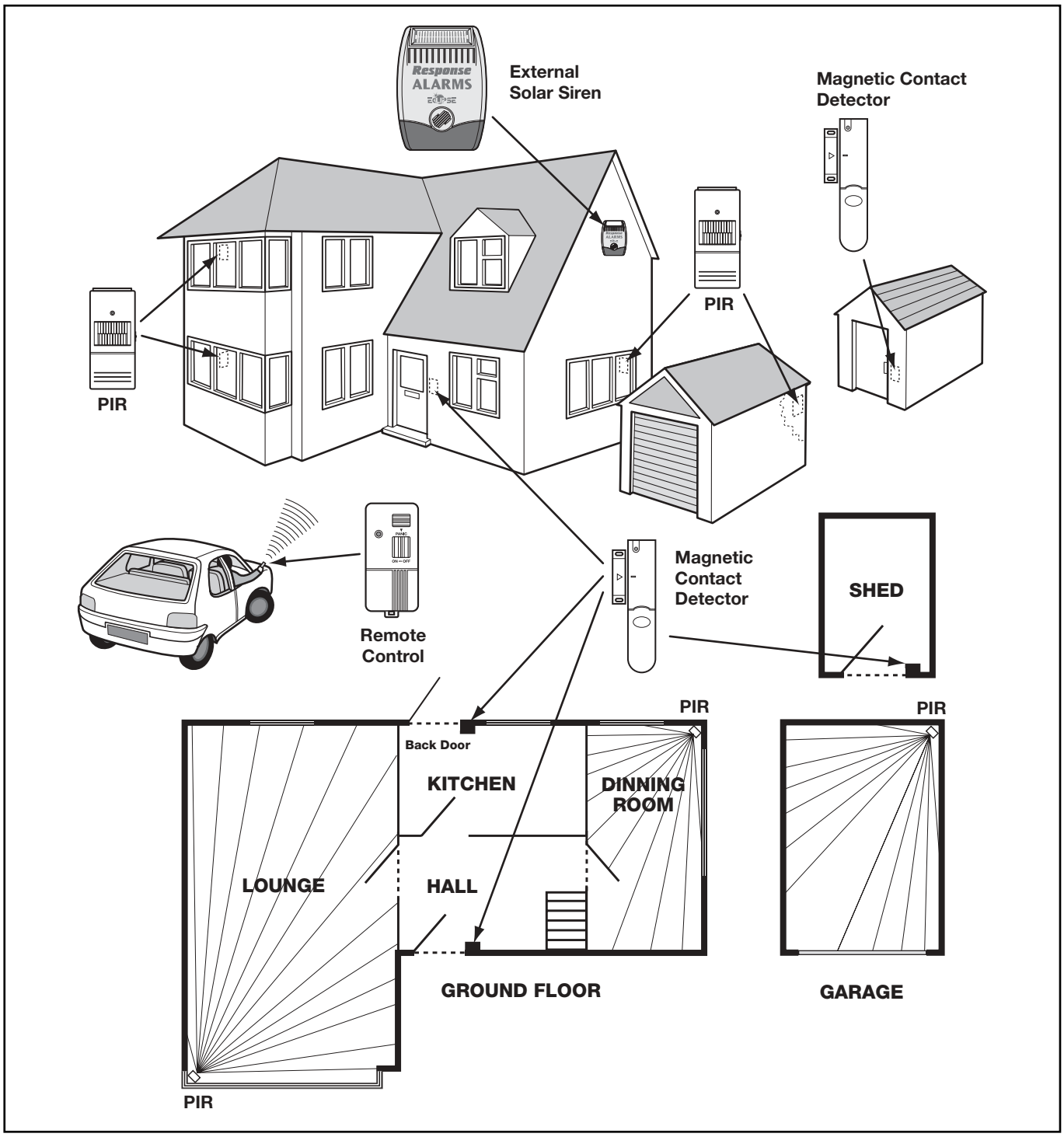
Detector and Remote Control Batteries

EXTENDING YOUR SYSTEM

Having selected a Wirefree Solar Alarm System, you can increase your protection by adding additional Wirefree Passive Infra Red Movement Detectors (PIR's) or Wirefree Magnetic Contact Detectors, either at the time of initial installation or at a future date. You may also wish to purchase additional Remote Control Units for use by other members of your household or a Wirefree Security Keypad to give a timed Entry/Exit Delay. Full details of other accessories to extend your system are given on page 12.

PLANNING AND EXTENDING YOUR WIREFREE ALARM SYSTEM

For even greater protection you can fit as many PIR Movement Detectors and Magnetic Contact Detectors as and when you require. The Eclipse Alarm System is designed to give you protection for a two bedroomed house. Just add additional detectors where further protection is needed.



PLANNING YOUR INSTALLATION

Before attempting to install your Wirefree Alarm System it is important to study your security requirements and plan your installation.

Each property will have its own layout, the diagrams shown are intended only as a guide.

WIREFREE EXTERNAL SOLAR SIREN

GENERAL INFORMATION

HOUSING

The Siren and Solar Panel are all encapsulated within a tough polycarbonate housing. This housing provides full protection against adverse weather conditions. All electronic components are specially treated to ensure long, reliable, trouble free operation and an integral tamper switch gives maximum security protection to the unit.

SOLAR PANEL

The Solar Panel mounted on the housing will maintain a charge to the rechargeable battery during daylight hours. During darkness, a negligible amount of energy is released by the rechargeable battery to operate the Siren unit.

RECHARGEABLE BATTERY

A high capacity 6 Volt 1.2Ahr sealed lead acid rechargeable battery ensures that the Siren is self maintainable during darkness and long winter periods.

INITIAL POWER-UP BATTERY

An Alkaline 9 Volt PP3 battery is supplied in the External Siren to boost the initial power to the unit.

HOUSE CODE

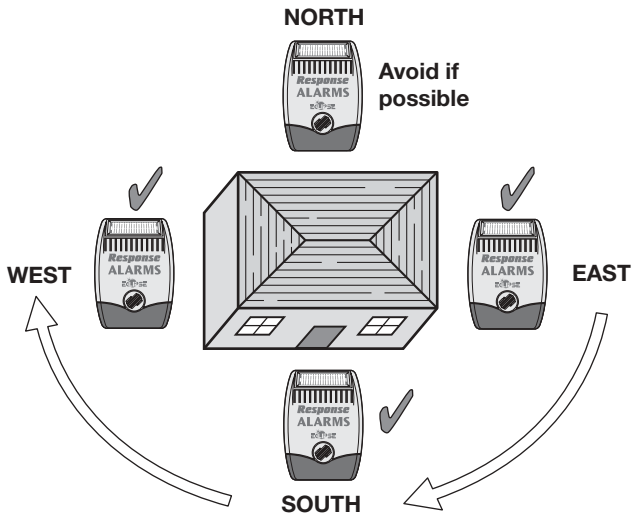
An encrypted code is set using a combination of miniature switches. This enables you to select a unique security code for your installation.

LOCATION

To provide the optimum amount of daylight to the Solar Panel, you should ideally mount the Solar Siren on a south facing wall. However, an easterly or westerly position will suffice.

Although the Solar Siren is designed to work on any aspect wall, for optimum performance you should refrain from siting the unit on a north facing wall, where possible.

Shadows cast by neighbouring walls, trees and roof overhangs should also be avoided. In practice, the Solar Siren should be positioned a minimum of twice the width of the eaves overhang below the eaves. Remember that in winter the sun is lower in the sky and you should avoid winter shadows where possible.



Note: The Solar Panel does not have to be mounted in direct sunlight, but does require a minimum of two hours of daylight each day.

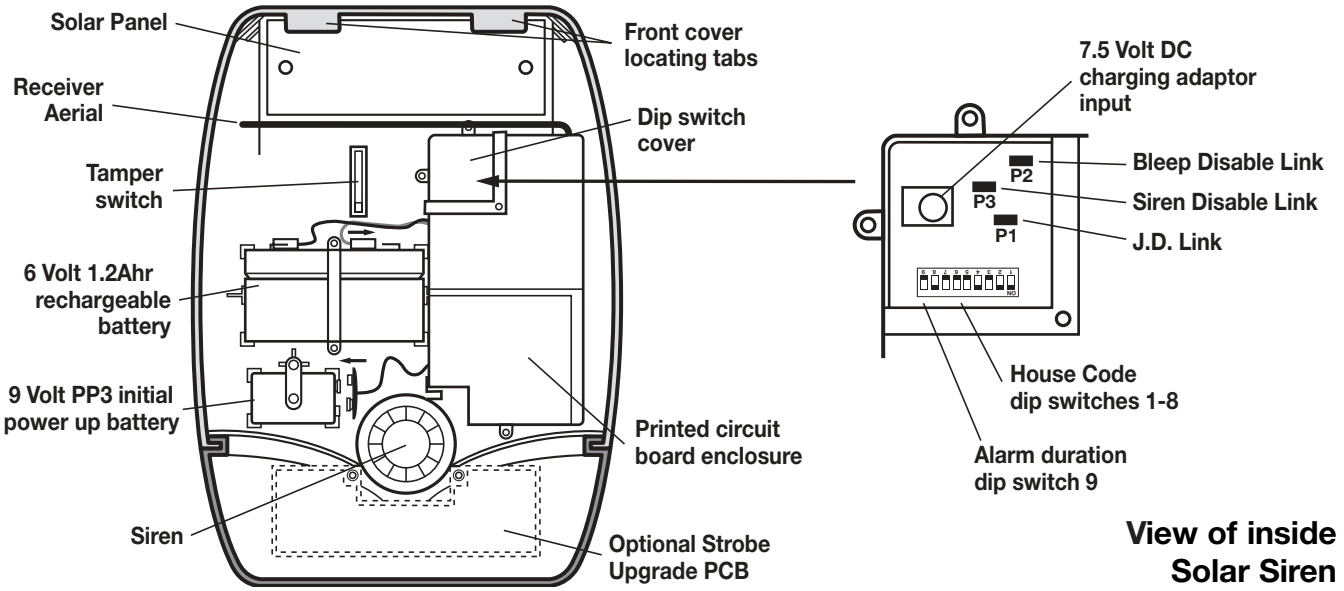
The External Solar Siren contains a sophisticated radio receiver. However, reception of radio signals can be affected by the presence of metallic objects within the vicinity of the Solar Siren. It is therefore important to mount the Solar Siren a minimum distance of 1 metre radius away from any external or internal metalwork, ie. external drainpipes, gutters and internal radiators, mirrors etc.

It is recommended that you check the suitability of your chosen location for the Solar Siren by temporarily fitting it to the external wall. Power up the unit and Remote Control, as described below, and check that you can operate the Siren from in and around the property, and from all locations where you plan to install detectors.

INSTALLATION

Remove the holding screw from the base of the housing and carefully hinge off the front cover. All electronic components are housed within the front cover.

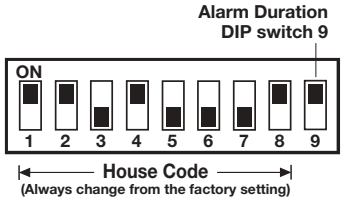
Use the rear back-plate as a template to mark the position of the four fixing holes on the external wall. Drill four 6mm diameter holes and insert the plastic wall plugs. Mount the back-plate using the four screws provided.



View of inside Solar Siren

SETTINGS

Undo the 3 screws holding the dip switch cover in place and remove the cover.



HOUSE CODE

Under the cover you will find a series of miniature dip switches.

Select and **record** a random combination of 'ON' and 'OFF' positions for dip switches 1 - 8. This is your House Code that enables all of your transmitters to communicate with your Solar Siren.

Note: When the Solar Siren is viewed as shown above (Solar panel at top) the dip switches are 'upside down'.

ALARM DURATION

This is the length of time that the alarm will sound for, following activation. Alarm duration can be set for either 1 or 3 minutes. Set dip switch 9 'OFF' for 1 minute or 'ON' for 3 minutes. (If accidently triggered, the alarm can be stopped at any time using the Remote Control).

BLEEP DISABLE

The Solar Siren will acknowledge signals from the Remote Control by bleeping. It is possible to disable the bleeps if required by removing the jumper P2 on the circuit board.

Once you have completed setting your House Code, alarm duration and, if required, bleep disable, refit the dip switch cover securely.

INITIAL POWER-UP

Connect the 9 Volt PP3 initial power battery to the clip-on connectors. Connect the rechargeable battery to the charging leads red to red (+) and black to black (–)

Note: Once the batteries have been connected, the unit will be operational and it is important that the solar panel receives sufficient light to maintain the battery charge. Also, the unit should not be repeatedly set into alarm during installation/testing, as this could rapidly drain the battery.

Hinge the front cover locating tabs over the top edge of the back plate, push the base of the siren cover into place and secure with the holding screw.

IMPORTANT: Ensure that the rear tamper switch is closed when you fit the siren cover to the back-plate (eg. listen for the switch to click). If the switch does not close this will prevent the Solar Siren from operating correctly. If necessary, remove the siren cover again and adjust the screw on the back-plate tamper knob to ensure the switch closes on assembly.

The fitting of your Solar Siren is now complete and the unit is automatically in Service Mode.

In Service Mode the Solar Siren will not acknowledge any signal from Detectors, Personal Attack Buttons, Tamper Switches etc. Service Mode is controlled from the Remote Control - refer to pages 5 and 9 for details.

JAMMING DETECTION

Your Wirefree Alarm conforms to the requirements of BS6799 class 1 for Wire-Free Intruder Alarm Systems and complies with the British Standards for Jamming

Detection. In order to detect any attempts to illegally jam the radio channel used with your alarm system a special jamming detection function is incorporated into the Solar Siren. If this feature is selected, and the radio channel is jammed continuously for 30 seconds, when the system is armed, the Solar Siren will emit a pre-alarm series of rapid bleeps for 5 seconds. If the jamming continues for a further 10 seconds or more a full alarm condition will occur.

The Jamming Detection circuit is designed to permanently scan for jamming signals. However, it is possible that it may detect other local radio interference operating legally or illegally on the same frequency. If it is planned to operate the jamming detection feature we recommend that the system is monitored for false jamming alarms for at least 2 weeks prior to leaving the Jamming Detect function on permanently. To select the Jamming Detect feature simply fit the jumper link across P1 on the Solar Siren PCB. For further advice on the Jamming Detect function please call our Technical Helpline.

REMOTE CONTROL UNIT

One Remote Control Unit is supplied in the standard package. However additional Remote Control Units can be purchased separately, if required. Any number of Remote Control Units can be used with your system, providing they are all coded with the system 'House Code'.

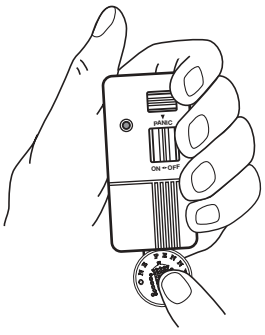
The Remote Control Unit(s) are used to operate the Solar Siren and to Arm and Disarm the system.

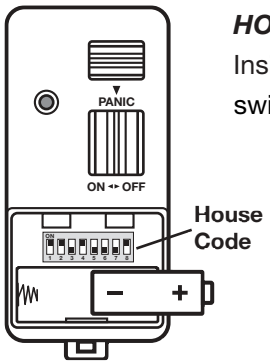
The Remote Control Unit also incorporates a personal attack button. This sounds the alarm at any time whether the system is armed or not. Just press 'PANIC' and the alarm will sound. If this is activated by mistake you can cancel the alarm by pressing and releasing the 'OFF' button on the Remote Control.

SETTING UP THE REMOTE CONTROL

12 VOLT BATTERY

Remove the cover with a coin and insert the battery with the negative (–) towards the battery spring.





HOUSE CODE

Inside you will find a row of 8 dip switches 1 - 8. This is your House Code. Set these switches to the same combination of 'ON' and 'OFF' as the dip switches in the Solar Siren. Replace the battery cover.

Stand within view of the Solar Siren and hold the 'ON' button on the Remote Control to the 'ON' position for approximately 10 seconds until the Solar Siren acknowledges the signal by emitting one long bleep (unless Bleep Disable has been set). This operation takes the Solar Siren out of Service mode and into Disarmed mode.

To Arm the Solar Siren, press and release the 'ON' button on the Remote Control. The Solar Siren will acknowledge the signal by bleeping once.

To Disarm the Solar Siren, press and release the 'OFF' button on the Remote Control. The Solar Siren will acknowledge the signal by bleeping twice.

To test the range of the Solar Siren, press and release the 'OFF' button on the Remote Control from in and around the property and from all locations where you plan to install the detectors, and check that the Solar Siren acknowledges the signals by bleeping twice each time the Remote Control is operated.

When you have finished testing the Solar Siren and Remote Control, turn the Solar Siren to Service mode by pressing and holding the 'OFF' button on the Remote Control for approximately 10 seconds. The Solar Siren will acknowledge the signals by bleeping twice, followed by one long bleep, after which the 'OFF' button can be released.

The Solar Siren is now in Service mode.

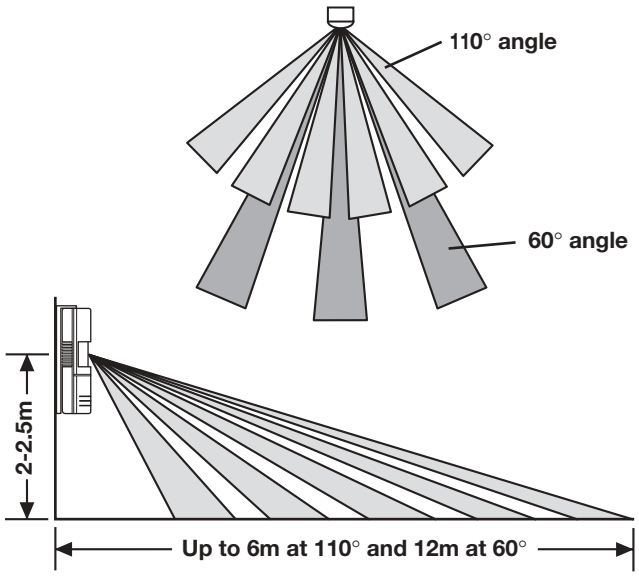
IMPORTANT

Ensure that the Solar Siren is in Service mode before proceeding with the installation of the detectors, otherwise a full alarm condition will be caused.

WIREFREE PASSIVE INFRA RED MOVEMENT DETECTORS (PIR's)

Two Passive Infra Red Movement Detectors are supplied in the standard package. However, additional Passive Infra Red Movement Detectors can be purchased separately, if required. Passive Infra Red Movement Detectors are designed to detect movement within a protected area. The detector element detects differences in Infra Red radiation when a person moves within the protected area. If movement is detected, a radio signal is transmitted to the Solar Siren to activate the alarm.

The recommended position for a Passive Infra Red Movement Detector is in the corner of a room mounted between 2 and 2.5 metres from the floor. At this height, the detector will detect movement up to 6 metres at 110° and 12 metres at 60° depending on adjustment. Also, in this position, the 110°/60° fan-shaped detection patterns can normally offer greater protection than mounting on a flat wall. Before selecting a position for a Passive Infra Red Movement Detector the following points should be noted:

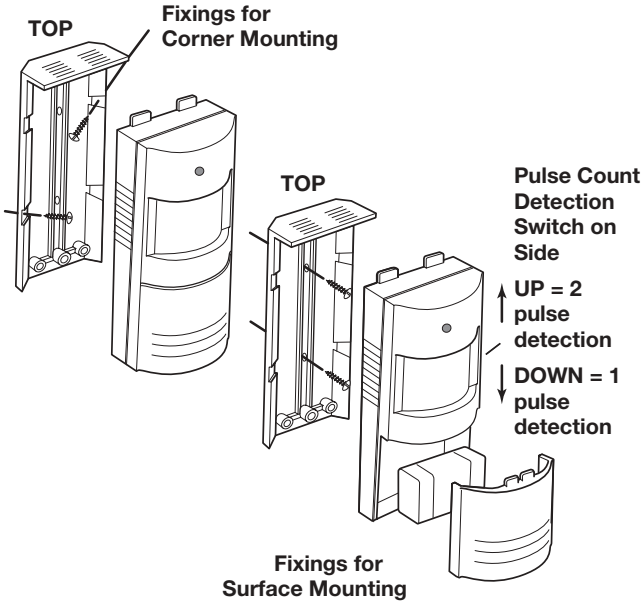


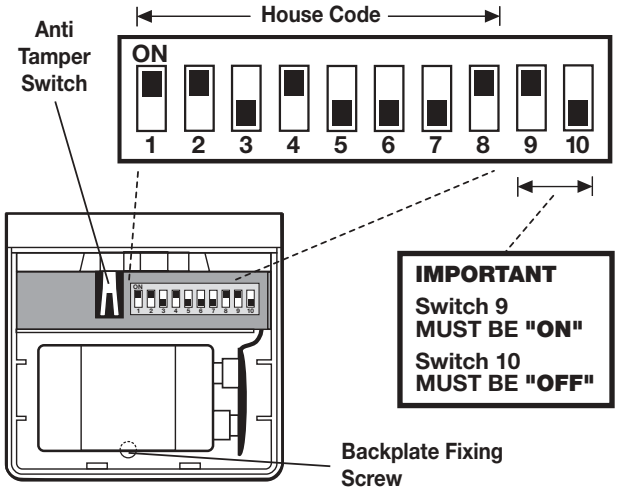
1. Do not position the detector facing a window or direct sunlight. PIR Movement Detectors are not suitable for use in conservatories or draughty areas.
2. Do not position the detector directly above any source of heat, eg. fire, radiators, boiler etc.
3. Where possible, keep pets out of areas protected by Passive Infra Red Movement Detectors. If this is not possible, alternative mounting arrangements may be required.
4. Where possible, mount the detector so that the logical path of an intruder would cut across the fan patterns rather than directly towards the detector.

Any number of PIR Movement Detectors can be used with your system, providing they are all coded with the System House Code and are within the radio range of the Solar Siren. To install and set the PIR Movement Detector, proceed as follows.

INSTALLING THE WIREFREE PASSIVE INFRA RED MOVEMENT DETECTORS (PIR's)

1. Remove the battery cover by inserting a coin under the cover lip and twisting open. Remove the fixings pack.
2. Remove the screw (in the battery compartment) holding the wall bracket to the detector.
3. Slide the bracket up and remove the wall bracket from the detector as shown.
4. Hold the wall bracket in position and mark the two mounting holes. (If corner mounting, drill pilot holes in the chamfers as shown).
5. Drill two 4mm diameter holes and insert the plastic wall plugs supplied.
6. Screw the bracket to the wall using screws supplied.
7. Offer the detector up to the wall bracket and locate it into one of the bracket slots to angle the detector down slightly. Fix the detector in position on the bracket using the fixing screw at the rear of the battery compartment.





View inside PIR Movement Detector Battery Compartment

SETTING THE WIREFREE PASSIVE INFRA RED MOVEMENT DETECTORS (PIR's)

1. Using a ball-point pen, set the miniature switches 1 - 8 to the same combination of 'ON' and 'OFF' as the dip switches in the Solar Siren.
2. Ensure that dip switch **9** is set to **'ON'**.
   Ensure that dip switch **10** is set to **'OFF'** .
3. The PIR incorporates an anti-false alarm feature designed to compensate where the detector may be affected by environmental changes, eg. insects, air temperature, etc. This feature is called 'Pulse Count' and may be selected for One or Two Pulse Detection.

   The recommended pulse count is One. In cases of extreme environmental problems or if unattributable false alarms are experienced, it may be necessary to select Two Pulse Count Detection.

   Note: The higher the Pulse Count, the more paces an intruder will have to move before triggering the alarm.

   To select the required pulse count move the switch on the side of the detector:

   UP = Two Pulse Detection
   DOWN = One Pulse Detection

TESTING PASSIVE INFRA RED MOVEMENT DETECTORS (PIR's)

ENSURE THAT THE SOLAR SIREN IS STILL IN SERVICE MODE.

1. Fit the 9 Volt Alkaline battery supplied to the battery terminals but do not replace the battery cover. After the battery has been connected for approximately 40 seconds the PIR Movement Detector will become active causing the LED above the detector window to flash every time movement is detected. Where Two Pulse Count Detection has been selected the LED will be dim on first detection and brighter on the second.
2. By walking into the protected area, the detector will now be triggered each time the detector senses movement and the LED will flash. If necessary re-adjust the detection distance by angling the detector up or down on its wall bracket.
3. Replace the battery cover on the detector.

Note: When the detector is fully installed ie. battery cover is refitted; the unit will not detect movement for approx. 40 seconds after each activation. In normal operation, with the battery cover on, the detector LED will **not** flash on movement detection.

WIREFREE MAGNETIC CONTACT DETECTOR(S) *(OPTIONAL)*

It is possible to expand your Eclipse Wirefree Solar Alarm System and enhance your security protection using optional Wirefree Magnetic Contact Detector(s) to protect opening doors, windows and patio doors etc. Any number of Magnetic Contact Detectors can be used with your system, providing they are all coded with the system House Code and are within radio range of the Solar Siren.

INSTALLATION

To install the optional Magnetic Contact Detector(s), set the House Code and fit the batteries, proceed as follows.

ENSURE THAT THE SOLAR SIREN IS STILL IN SERVICE MODE.

1. Remove the battery cover by sliding and lifting it off. (**DO NOT** use a screw driver to lever off).
2. Remove the battery holder by carefully tilting up the end and sliding the connectors off of the printed circuit board.

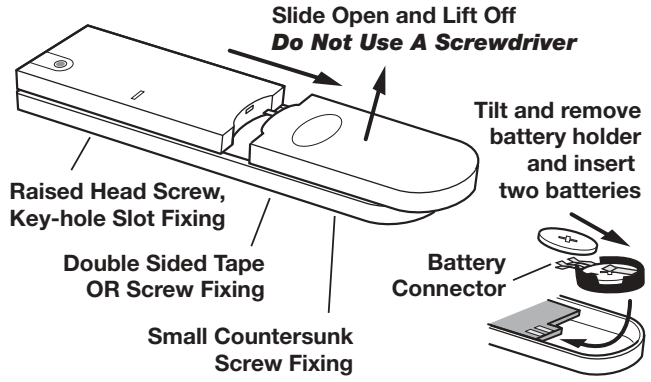
3. Fix the detector and magnet to the opening using either the double sided tape **OR** screws provided.

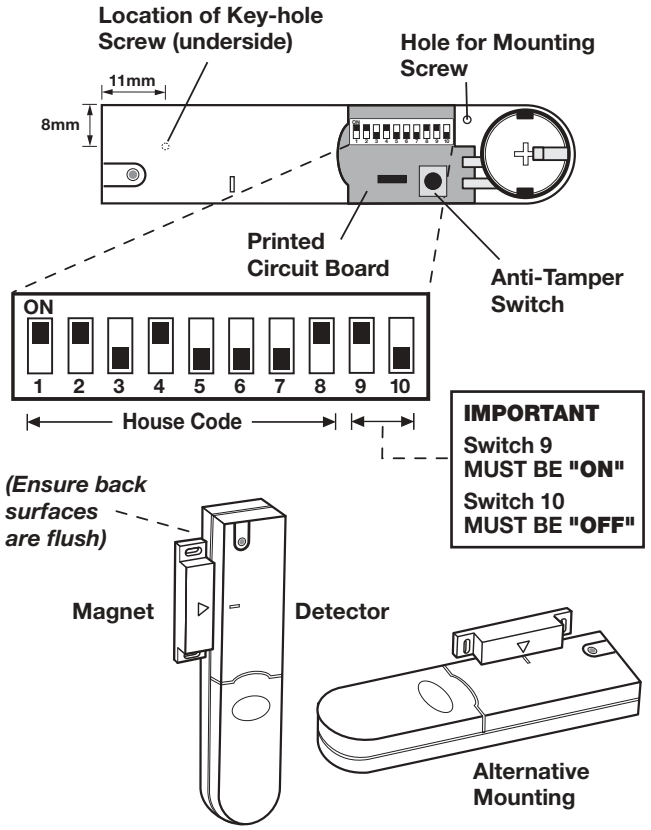
   Before fixing the detector to a metal door/window check the radio range as previously described. Under exceptional circumstances it may be necessary to space the magnet/detector off the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

   When using the screws ensure that the small countersunk screw is used within the battery compartment.

   Mount the Magnet to the door and the Detector to the door frame, (or vice versa, if necessary).

   Ensure that the arrows on the Magnet and Detector are pointing towards each other and that the gap between the Detector and the Magnet is less than 5mm.


Slide Open and Lift Off
Do Not Use A Screwdriver
Tilt and remove battery holder and insert two batteries
Raised Head Screw, Key-hole Slot Fixing
Double Sided Tape OR Screw Fixing
Small Countersunk Screw Fixing
Battery Connector



4. Using a ball-point pen, set the miniature switches 1-8 to the same combination of 'ON' and 'OFF' as the dip switches in the Solar Siren.
5. Ensure dip switch **9** is set to **'ON'**.
   Ensure dip switch **10** is set to **'OFF'**.
6. Slide the batteries supplied into the battery holder, ensuring that the positive (+) side is uppermost on each battery as it is installed.
7. Carefully refit the battery holder into the Detector ensuring that the spring connectors slide onto either side of the circuit board.
8. Refit the battery cover by placing it over the batteries and sliding it on.
9. Test the operation by opening the door/window. The LED on the Detector will light for approx. 1 second and then extinguish each time the Magnet is parted from the Detector.

TESTING THE SYSTEM

A) INITIAL TESTING

Set the Solar Siren into Disarmed mode by pressing and holding the 'ON' button on the Remote Control for approximately 10 seconds until the Solar Siren acknowledges the signal by emitting one long bleep.

Note: only required on initial testing or if the Siren is in Service mode.

B) START OF TEST IF SYSTEM ALREADY INSTALLED

ENSURE THAT THERE IS NO MOVEMENT IN ANY PROTECTED AREA.

Arm the system by pressing and releasing the 'ON' button on the Remote Control. The Solar Siren will acknowledge the signal by bleeping once, (unless Bleep Disable has been selected).

After 40 seconds walk into a PIR Movement Detector protected area and ensure that the Solar Siren goes into Alarm mode (ie. Siren sounds).

Disarm the system by pressing and releasing the 'OFF' button on the Remote Control.

Continue to test the other PIR Movement Detectors in turn. Remember that the detectors need to settle for at least 40 seconds between each activation.

To test the optional Magnetic Contact Detectors, Arm the system using the remote control. Open the protected door/window and ensure that the Solar Siren goes into Alarm Mode.

Disarm the system using the Remote Control.

Test each Magnetic Contact Detector by arming and disarming the system and operating each detector in turn. When you have completed testing leave the Solar Siren in the Disarmed Mode.

You may test your system at any time. However, it is recommended that the system is tested at regular intervals not exceeding 3 months.

OPERATING INSTRUCTIONS

When leaving the premises, the system must be armed. However, before doing so, check that all windows are closed and locked, all protected doors are closed and PIR Movement Detectors are not obstructed. Ensure that pets are restricted to areas not protected by Passive Infra Red Movement Detectors, or that suitable precautions have been taken to allow for pets.

To Arm the system, press and release the 'ON' button on the Remote Control, from outside the premises. Ensure that the Solar Siren acknowledges the signal by bleeping once. If you need to re-enter the premises, the system must first be disarmed or a full alarm will occur.

To Disarm the system, press and release the 'OFF' button on the Remote Control from outside the premises. Ensure that the Solar Siren acknowledges the signal by bleeping twice. Do not enter the protected premises until the system has been disarmed or a full alarm will occur.

IMPORTANT

If, when you Disarm, the Solar Siren emits a series of **TEN** rapid bleeps, this indicates that the system has been triggered into alarm whilst it was armed. **CHECK THE SECURITY OF THE PROPERTY BEFORE ENTERING.**

DISARMING AFTER AN INTRUSION

A full alarm condition will be initiated following any intrusion. This condition will continue until expiry of the pre-set alarm duration time (1 or 3 minutes) whereby the siren will cease. The Solar Siren will now immediately re-arm itself. In the event of a further intrusion the Solar Siren will once again initiate a full alarm condition and this process can be repeated up to three times. If a full alarm condition is initiated accidently the alarm can be stopped immediately by pressing and releasing the 'OFF' button on the Remote Control.

SYSTEM SERVICE MODE

To prevent the alarm from being activated when either opening the Solar Siren or removing a battery cover from a detector, it is necessary to first turn the Solar Siren to Service mode by pressing and holding the 'OFF' button on the remote control for approximately 10 seconds. The Solar Siren will acknowledge the signal by bleeping twice, followed by one long bleep after which the 'OFF' button can be released.

When you have completed your alterations to the system turn the Solar Siren back to Disarmed Mode by pressing and holding the 'ON' button on the remote control for approximately 10 seconds until the Solar Siren acknowledges the signal by emitting one long bleep.

PERSONAL ATTACK ALARM

A full alarm condition can be initiated by the user at any time (system armed or disarmed) in the event of threat or danger. To initiate a personal attack alarm press and release the 'PANIC' Button on the Remote Control.

The Solar Siren will emit a full alarm sound which will continue for the alarm duration time (1 or 3 minutes) or until the system is reset by pressing and releasing the 'OFF' button on the Remote Control.

BATTERY MONITORING

The system will continuously monitor the battery condition of all PIR Movement Detectors. If the voltage level of any PIR battery falls below 7.5 Volts the red LED on the detector will flash to let you know that the battery needs to be replaced.

To identify PIR Movement Detector(s) with a low battery, leave each protected area for a least 40 seconds. If, when you re-enter the area, the detector LED flashes on detection of movement, this indicates a low battery.

The batteries in the optional Magnetic Contact Detectors can be checked by operating the detector (opening and closing the protected door/window) and observing the LED on the detector. If the LED is dim or does not illuminate the batteries need to be replaced.

In the event of a detector low battery condition, turn the Solar Siren to Service mode using the Remote Control as previously described. When you have replaced the

battery(ies) as required turn the Solar Siren back to Disarmed Mode.

Note: When replacing PIR batteries, fit PP3 Alkaline type. Rechargeable batteries should NOT be fitted.

MAINTENANCE

Your Wirefree Alarm System requires very little maintenance. However, a few simple tasks will ensure its continued reliability and operation.

SOLAR SIREN

1. At least once a year, preferably in the Autumn, the solar panel on the top of the siren housing should be cleaned using a soft, damp cloth. This operation will ensure that the solar panel receives all the available light. The cleaning operation can be combined with the general cleaning of the outside of the house, windows etc. to reduce maintenance time.

2. Should you, for any reason, have to completely power-down the Solar Siren (eg. to move the system to a new premises) turn the Solar Siren to Service mode, disconnect the rechargeable battery and initial power-up battery and ensure that the solar panel is covered with a light proof material to prevent it being energised.

3. The Solar Siren should not be left for long periods with the batteries connected, unless the unit is able to receive sufficient light to maintain the battery charging circuit. Failure to maintain charge to the unit will result in the rechargeable battery running unacceptably low. Should this occur, the unit must be recharged from a 240/7.5 Volt DC 100mA mains adaptor (Response order code Solar S100TR). When re-powering the Solar Siren fit a new 9 Volt PP3 leak proof Alkaline initial power-up battery to ensure that the Unit receives sufficient power until the solar panel can recharge the main battery completely.

4. The main rechargeable battery has a typical life of 3-4 years and needs no maintenance during this period, providing the battery is kept charged. The battery will be damaged if it is stored in a discharged state.

   The rechargeable battery should be taken to a suitable Recycling Centre at the end of its useful life. DO NOT dispose of with your normal household waste. The rechargeable battery contains Sulphuric Acid - DO NOT attempt to open the casing.

DETECTORS & REMOTE CONTROL

The Detectors and Remote Control(s) require no maintenance. Simply replace the batteries once a year or when a low battery is indicated. The specifications for the Detector and Remote Control batteries are as follows:

PIR Movement Detectors:	9 Volt PP3 Alkaline
Remote Controls:	12 Volt 23A Alkaline
Optional Magnetic Contact Detectors:	2 x 3 Volt 230mAhr Lithium Cells (Panasonic CR2032 or equivalent)

Please recycle used batteries where Local Authority facilities exist. Keep batteries away from children and do not dispose of in fire.

ENTRY/EXIT DELAY OPTION

In addition to the standard Instant alarm operation; the Solar Siren incorporates the facility to give a 15 second Entry/Exit Delay time when used in conjunction with the optional Wireless Security Keypad CA2000KP. It is not possible to programme an Entry/Exit Delay using only the Remote Control.

When armed using the optional Keypad, the Solar Siren will give one bleep followed by a 15 second Exit Delay; followed by one bleep. The system will then be fully armed. If any detector is then triggered, the system will initiate a 15 second Entry Delay. The Solar Siren will emit one long bleep followed by a 15 second Entry time during which the system should be disarmed via the Keypad or a Remote Control from the system. If the system is not disarmed a full alarm condition will occur at the end of the 15 second Entry Delay period.

USING THE OPTIONAL SECURITY KEYPAD:-

? ? ? ? ON — **Arms system with 15 second Entry/Exit Delay**

Access Code

? ? ? ? OFF — **Disarms system**

Access Code

Full installation and operating instructions are included with the CA2000KP optional Wirefree Security Keypad.

TROUBLE SHOOTING

Symptom / Recommendation

Siren gives full alarm condition when arming

1. Rear anti-tamper switch on siren is open - ensure that it is pressed fully closed. The wall is possibly uneven, the siren may need relocating to a more suitable position.

Solar Siren not re-acting to Remote Control(s)

1. Ensure 'House Codes' are the same in the Solar Siren and Remote Control.
2. Solar Siren in Service Mode. Turn to Disarmed Mode using Remote Control (see 'System Service Mode' page 9).
3. Disconnect rechargeable and initial power-up batteries. Cover Solar panel and leave unit for 1 minute. Reconnect batteries remove Solar panel cover and take out of Service Mode.
4. Solar Siren rechargeable battery discharged. Fit new initial power-up battery and re-power up siren.

Solar Siren gives full alarm condition when system has not been activated by an intruder

1. Tamper switch activation - check all detector battery covers for security and Solar Siren for adequate fixing against external wall.
2. Personal Attack Alarm operated from Remote Control(s)
3. Jamming detection circuit operation (see page 4 for advice)

Solar Siren not responding to detectors

1. Ensure that the 'House Code' on the detector is the same as the Solar Siren.
2. Ensure detectors are within radio range of Solar Siren and equipment is not close to metal objects.
3. Replace detector battery(ies).

PIR Movement Detector false alarming

1. Ensure that the detector is not pointing at a source of heat or a moving object.
2. Ensure that the detector is not mounted above a radiator or heater.
3. Ensure that the detector is not facing a window or in direct sunlight.
4. Ensure that the detector is not in a draughty area.

PIR Movement Detector LED flashes on detection of movement, with battery cover on

1. Low battery - replace Alkaline battery.

Symptom / Recommendation

PIR Movement Detector not detecting a person's movement

1. Check battery connections are good.
2. Pulse count set too high - reset to one pulse count detection.
3. Ensure switches 9 and 10 in detector are set correctly.
4. Allow up to one minute for detector to settle down.
5. Ensure that detector is mounted the correct way up (battery compartment at the bottom, except for 'Pet Alley').
6. Ensure that the detector is mounted at the correct height (2 - 2.5m from floor, except 'Pet Alley').
7. Check that the detector is correctly set up. (See setting the PIR Movement Detectors page 7).
8. If detector is mounted upside down for 'Pet Alley' check that the mounting height is not greater than 1m from the floor, depending on size of pet.

Red LED on Remote Control not illuminating, or is dim when unit is operated

1. Ensure battery is connected with correct polarity.
2. Ensure battery connections are good.
3. Replace battery with Alkaline type.

Optional Magnetic Contact Detector not working

1. Check batteries by observing detector LED.
2. Ensure 'House Code' is the same as Solar Siren.
3. Ensure dip switches 9 and 10 are set correctly.

Red LED on Magnetic Contact Detector not illuminating or is dim when door or window is opened

1. Ensure batteries are connected with correct polarity.
2. Ensure battery connections are good.
3. Replace batteries.

Magnetic Contact Detector false alarming

1. Ensure that gap between magnet and detector is less than 5mm.
2. Tamper switch below battery cover not depressed. Check battery cover fixing lugs are not broken.

HELPLINE
If you need help, just dial for expert technical support

01372 450960
(Lines open 9.00am to 6.00pm, Monday to Friday).

Important notice following alarm installation

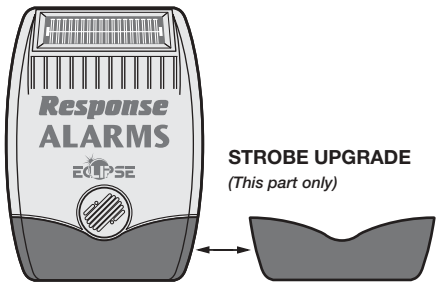
In order to comply with the Code of Practice on Noise from Intruder Alarms 1981 you should carry out the following procedures within 48 hours of Intruder Alarm installation.

1. Notify your local police station in writing that an Intruder Alarm System has been installed, giving names and contact details of at least two persons who have access to a Remote Control.
2. Inform the Local Environmental Health Authority of the installation and which police station has been informed.
3. Ensure that all users are aware of the operating procedures.
4. Immediately inform your Local Authority and police station if there is a change to the persons who have Remote Controls.

EXTENDING YOUR E100 WIREFREE ALARM SYSTEM

You may add Wirefree Magnetic Contact Detectors and additional Wirefree PIR Detectors etc. from the CA2000 range of accessories as required, to give additional protection where needed. The following accessories are also available to extend and enhance your system.

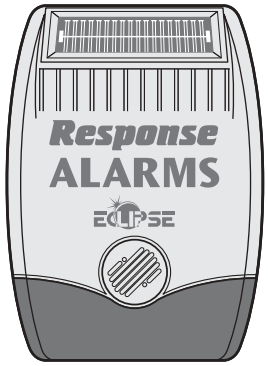
ACCESSORIES



CA2000STR

STROBE UPGRADE CA2000STR

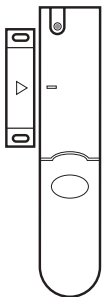
Add to your existing Siren Unit to give full Siren & Strobe protection. The Strobe Flash Light is activated simultaneously with your siren which will help identify a house in alarm condition.



E100D

DUMMY SIREN E100D

The Siren is available as a dummy design and acts as an excellent visual deterrent.



CA2000M

WIREFREE MAGNETIC CONTACT DETECTOR CA2000M

Protect opening doors and windows using this slimline Wirefree Magnetic Contact Detector. Simple to install on most doors and windows using the double sided adhesive pads or screws supplied.

The detector senses when the magnet moves away from the side of the detector and sends a coded radio signal to the Solar Siren to initiate an alarm.

Supplied complete with 2 x 3 Volt Lithium batteries.

CA2000KP

WIREFREE SECURITY KEYPAD CA2000KP

This small battery operated keypad requires no wiring and is fitted in minutes. It sends security coded radio signals to your Siren and only allows access to those who know your user changeable access code.

Designed for installation inside the property **the Keypad allows you to set a 15 second Entry/Exit Delay on your system for greater flexibility.** The ideal location for the Keypad is normally adjacent to the main entrance door for easy access when entering or leaving the premises. Supplied complete with 9 Volt alkaline battery.

If you need help, just dial the Helpline for expert technical support:

01372 450960

(Lines open 9.00am to 6.00pm, Monday to Friday).

We can solve most problems quickly over the phone.

GUARANTEE

This product (excluding Alkaline batteries) is guaranteed for one year from the date of purchase against faulty materials or workmanship. We will repair or replace any faulty product. No liability can be accepted for any problems caused by fair wear and tear, buyers negligence, improper fitting or use, local radio interference, wilful or accidental damage, or any consequential loss or damage howsoever caused. This guarantee does not affect your statutory rights and is valid in the UK and Eire only.

If an item develops a fault, please call the Helpline on the above number. Should you need to return a product, it must be to the address below in adequate packaging with:

1. A copy of your original invoice/receipt.
2. A full description of the fault.
3. All relevant batteries.

NOTE:

If returning a system, make sure that all batteries are disconnected and secure and that the unit is adequately packaged to prevent damage in transit.

For security, Recorded or Registered Post is recommended.

Wireless ALARMS

17 Church Road, Great Bookham, Surrey KT23 3PG

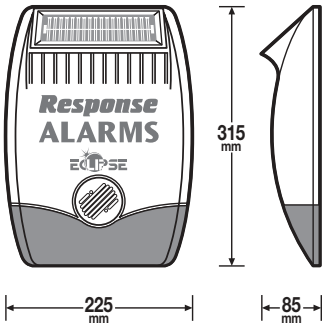
Telephone: 01372 450960

E-mail: info@wireless-alarms.net

www.wireless-alarms.net

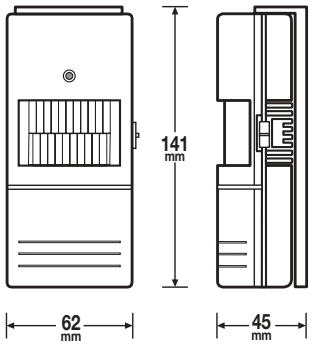
ECLIPSE E100 SPECIFICATION

External Solar Siren



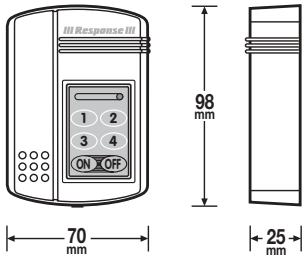
- Case material 3mm Polycarbonate
- Dual front and rear anti-tamper
- Internal receiver and aerial UK frequency 418MHz
- Sealed lead acid battery 6 Volt 1.2Ahr
- Solar Panel 7.5 Volt - Charge Rate typically 60mA
- Time out - switchable
- Audible confirmation - selectable
- Auto confirmation on set up
- High Power Piezo Siren
- Siren prohibit - selectable
- System range up to 100m in free air space
- Operation time in complete darkness - 40 days
- Auto reset on activation
- Jamming Detection
- Anti-foam
- 15 second Entry/Exit Delay facility when operated via Optional Wirefree Security Keypad CA2000KP
- Optional Strobe Upgrade CA2000STR

Wirefree Passive Infra Red Movement Detector



- Detection range: up to 6 metres at 110° and 12 metres at 60°
- Walk test facility
- One or two pulse count detection
- RF immunity
- Low battery indicator
- Anti-tamper
- Adjustable wall bracket
- Corner or surface mount
- Pet mount option
- Alkaline battery supplied

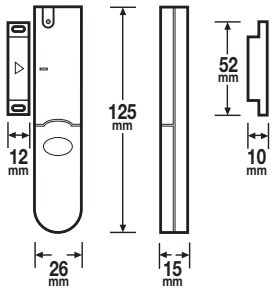
Wirefree Remote Control



- User changeable four digit access code
- On-Air indicator
- 15 second Entry/Exit Delay facility
- Anti-tamper
- Indoor use only
- Dual Personal Attack buttons
- Low battery indicator
- Alkaline battery supplied

Wirefree Security Keypad

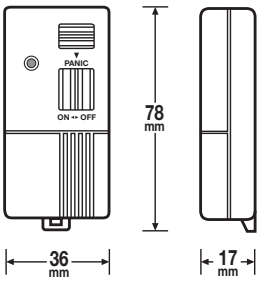
(Optional)



- LED battery confirmation
- Anti-tamper
- Operating gap 5mm
- Door or window mounting
- Lithium batteries supplied

Wirefree Magnetic Contact Detector

(Optional)



- Instant ON/OFF
- Personal attack button
- LED confirmation
- Alkaline battery supplied
- No Entry/Exit Delay facility

RESEARCH & DEVELOPMENT

Our R & D Department is constantly developing new products.
We practice a policy of continued improvement and reserve the right to change specifications without prior notice.

If you need help, just dial the Helpline for expert technical support

HELPLINE: 01372 450960

(Lines open 9.00am to 6.00pm, Monday to Friday.

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RADIO DEVICES FOR USE IN THE UK

Wireless Alarms. 17 Church Road, Great Bookham, Surrey KT23 3PG
Telephone: 01372 450960 E-mail: info@wireless-alarms.net www.wireless-alarms.net